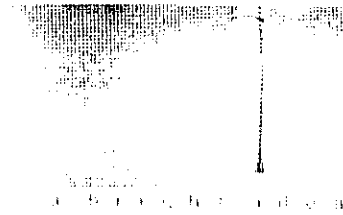




SunEdison
simplifying solar



Davis Montham Air Force Base Alternative Energy Solutions Task Force

June 14th, 2007

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Agenda

- Who is SunEdison
- Solar Basics
- State of the Industry
- Why Solar PV?



The SunEdison Bio

Founded in 2003 to:

- Make solar a meaningful worldwide energy source
- Deliver electricity at or below existing retail prices

The first provider to offer solar energy as a turn-key service

- No capital outlays
- No impact on existing services
- No ongoing customer maintenance costs

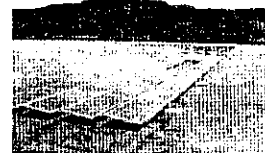
The largest solar energy service provider in North America

- Over 30MWs of 100% renewable electricity installed
- Predictable electricity prices over a 20 year term

A nationwide business operating across North America

- 250+ employees
- 5 offices in California, Colorado, New Jersey and Maryland

Turn-key, Predictable, Proven, Renewable Energy

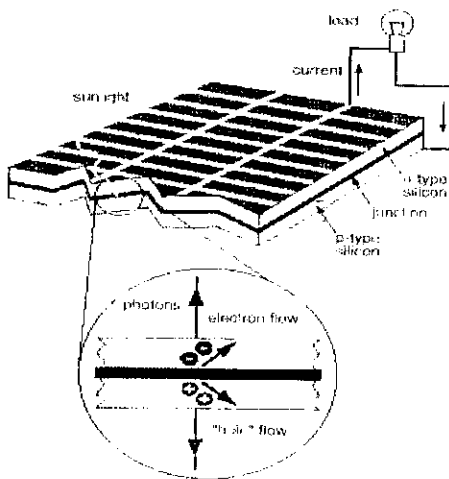


A PV (Photo-Voltaic) Cell

- Thin wafers of silicon
 - Similar to computer chips
 - Much bigger, much cheaper
- Silicon is abundant (sand)
 - Currently short supply
 - Non-toxic, safe (Si, but others not as benign)
- Light carries energy into cell
- Cells convert sunlight energy into electric current-
they do not store energy
- Sunlight is the "fuel"

How a PV Cell Works

- Light knocks loose electrons from atoms
- Freed electrons have extra energy, or "voltage"
- Internal electric field pushes electrons to front of cell
- Electric current flows on to other cells or to the load
- Cells never "run out" of electrons



Types of PV Cells

